

TRACY TAYLOR, P.E. State Engineer

# DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES

901 S. Stewart Street, Suite 2002 Carson City, Nevada 89701 (775) 684-2800 • Fax (775) 684-2811 http://water.nv.gov

Re: J-637 (NV00050)

January 7, 2010

Vernon Dalton Metropolis Water Irrigation District HC 60 Box 125 Wells, Nevada 89835

Dear Mr. Dalton:

Please find enclosed approved application J-637 for the construction of the described facility with supporting documents bearing the endorsement of the State Engineer. Please review attachment "A" of the authorization for due dates and "as-built" submittal items. Please also take particular note of terms (4), (5) & (7) of attachment "A."

A revised Emergency Action Plan will be required in order to gain an approval to impound.

You are responsible for maintaining a safe work site during construction. Please report any slumps, sloughs, seeps or unusual observations to the State Engineer immediately.

If you have any questions, please feel free to call the undersigned at (775) 684-2843.

Sincerely,

Michael J. Anderson, P.E.

Staff Engineer III

MJA/sg

Enclosure

cc:

Dan L. Dyer, P.E., Dyer Engineering and Consultants, Inc. Michelle Stamates, P.E., NDEP Bureau of Administrative Services RECEIVED

JAN 1 1 2010

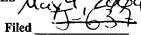
ENVIRONMENTAL PROTECTION

### STATE OF NEVADA

### DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES DIVISION WATER RESOURCES

Application No. J-634

APPLICANT MUST NOT FILL IN ABOVE BLANKS



## APPLICATION FOR APPROVAL OF THE PLANS AND SPECIFICATIONS FOR THE CONSTRUCTION, RECONSTRUCTION OR ALTERATION OF A DAM

This Application Involves in No Way the Right to Appropriate Water
To secure the right to appropriate water, application should be made to the State Engineer
on forms which will be furnished upon request.

I, D. Vernan Dalton of HC VO Box 130
WUIS, W 89835 , hereby make application for the approval of the
Plans and specification of the <b>Reconstruction</b> , reconstruction, alteration of <b>Bishop Cycle Days</b> dam.
The owner of the proposed dam is Matopals Water Inigation District
of HC 60 Box 125 Wells, W 89835 State of Nevada
If the owner is a corporation, give name and address of president and secretary
NIA
The applicant is acting for the owner in the legal capacity of Project Director for District
Location of Dam
1. The source of water to be stored is Bishap Creek which is a tributary of Humbout Piver
Name of steam or underground and the proposed dam to be located within the ME 1/4, MW 1/4, Sec. 24
- 29N) - IM
Description and Dimensions of Dam (If for an alteration, the data given below is for the altered dam)
2. Type of dam Farth Fill 3. Length of crest 408 ft.
4. Height stream bed to spillway crestft. 5. Height foundation to spillway crestft.
6. Freeboardft. 7. Thickness at topft. 8. Thickness at bottomft.
9. Slope upstream* 3: 10. Slope downstream* 2: 11. Upstream facing Ripkap  Concrete or rock paving, etc.
12. Amount of material in dam 262,000 cu. yds. 13. Estimated Cost \$ \$7,500,000
14. Spillway data open channel concrete chute with flipbacket.
15. Outlet data 36" of RCP
16. Elevation of crest of dam 5940' above MSL datum
Approximate elevation to be given if true elevation not available  17. Area of reservoir at spill way level

\$500 filing fee must accompany this application

19. State the purp	ose of the dam	igation W	ater storage	
20. State the use th	nat is to be made of water _	Trigation only; storage only; stor	age and diversion; debris storage, 1100d control, etc.	w
		municipal, domestic	r, irrigation, power, mining and milling, recreation, stockw	atering or none
5	3442 Longle	lame and address of Engineers p	eparing plans	
			) 852-144D	
		<del></del>		
22. If the proposed	dam is to be built under F	ederal supervision, s	ate what department has jurisdiction	
N	lA			
23. The mans, plan	s and specifications accom	nanying this annlica	tion are a part thereof	
,, <sub>F</sub>	<del>-</del>	Signed] Q. Z	erm Delk	
	Ľ,	this 23	Applicant day of MAY,	± 2009
		uns	day of,	17 200
<b>APPROV</b>	AL OF APPLICATIO	ON NO	J-637, IN	CLUDING
	PLA	NS AND SPECI	FICATIONS	
			, including plans and	
for the	BISHOP C	RECK	(METROPOLI	<u>s) ~ d</u>
has been examined	and the same is hereby app	proved, subject to the	following conditions:	
	PIFASE .	SEE ATT	ACHMENT "/	4"
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			Witness my hand and seal this	<del></del> d
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	:		State Eng	ineer (P. E.
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#### **ATTACHMENT "A"**

#### Permit terms for the construction of Bishop Creek (Metropolis) Dam.

- 1) This approval includes the construction of the Diversion Structure, but not those items described as the Conveyance System, Access Road and Recreation Facility, except as provided for in item (2), following.
- Plans and specifications for the extension of the access road to the dam site (Construction Specifications

   Binder 2, page 25 of 352) must be submitted for review and approval by the State Engineer no less than thirty (30) days prior to initiating construction of said extension.
- 3) Addition of a hydropower facility at the dam will require a separate Application for Approval of Plans and Specifications by the State Engineer.
- 4) This approval is contingent upon approval of Applications 78911 and 78912 currently before the State Engineer to change water Permits 1000 and 1807, Certificate 2850.
- 5) If construction has not commenced within two (2) years of this approval, the permit will become void and a new application must be made prior to initiating construction.
- 6) A Nevada licensed civil engineer experienced in dam construction shall make periodic inspections during construction to ensure conformance to the approved plans and specifications.
- 7) The State Engineer must be notified upon completion of foundation excavation, characterized as Phase A, such that an inspection may be performed. No fill or crack treatment other than cleaning may be performed until the inspection has been completed. Should foundation grouting be scheduled prior to foundation excavation, the State Engineer must also be notified prior to initiating grout placement.
- 8) Change orders or other modifications to the design, plans or specifications for either the diversion or storage dam must be submitted to the State Engineer as they are determined.
- 9) Upon completion of construction but no later than January 9, 2012, the engineer shall submit to the State Engineer a Report of Completion of Work (Report). If the Diversion Structure is constructed as a separate phase, a separate Report must be submitted upon completion of the Diversion Structure.
- 10) The Report must include the statutory filing fee, signed verification from the engineer that the structure was completed in substantial conformance to the plans and specifications as approved and record drawings ("As-Built"). The Report shall further include:
  - a. A summary of the results of all earth compaction, concrete strength and any other tests. Actions taken in response to any failed tests shall be described.
  - b. The moisture density relationships, vibratory compaction, etc. (lab results) for all soils utilized.
  - c. Foundation grouting results to include, without limit: hole locations and inclinations, hole deviation, test results, grout pressure and take by interval, grout mix and observations of overseeing engineer.
  - d. Seep analysis for improved foundation with the water surface at normal maximum conservation with respect to expected water volume at drains.

- e. Description of borrow source(s) for any imported embankment materials
- 11) The record drawings must also include an accurate reference point located <u>on</u> the embankment, preferably at benchmark 3, and a delineation of the actual borrow sources. The reference point must be tied to a found section corner by bearing and distance and be described by latitude and longitude.
- 12) The request for approval to impound must be accompanied by an updated Emergency Action Plan (EAP) reflecting the modified storage and diversion dams.
- 13) The request for approval to impound must be accompanied by an Operations and Maintenance (O&M) Manual(s) covering all facets of both the diversion and storage dams.
- 14) Upon satisfactory review of the Report, the State Engineer will issue an Approval to Impound. Water may not be impounded behind the structure prior to receipt of the Approval to Impound.
- 15) Property improvements that increase the upstream runoff conditions may necessitate modification of the structure to meet a larger extreme event flow. The owner is responsible for submitting revised inflow flood studies, making any required modifications and acquiring the necessary permit(s).
- 16) This office, its officials or employees assume no liability for the information, data or conclusions presented by the consulting engineer. Therefore no warranty, either expressed or implied, has been made in conduct of this review.
- 17) This approval does not waive the necessity of obtaining other required permits from any applicable Federal, State or local agencies.